## PATENT COOPERATION TREATY

## **PCT**

REC'D 19 JAN 2006

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## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY WIPO

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACT	TON	See Form PCT/IPEA/416		
62226-PCT-AM2					
International application No.	International filing date (de	ay/month/year)	Priority date (day/month/year)		
PCT/US05/00073	05 January 2005 (05.01.20		05 January 2004 (05.01.2004)		
International Patent Classification (IPC)	or national classification and	IPC			
IPC(7): G01N 31/00 and US Cl.: 702/23	2				
Applicant					
MILLS, RANDELL L.					
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.					
2. This REPORT consists of	a total of sheets, in	ncluding this cover s	heet.		
3. This report is also accomp			•		
			sheets, as follows:		
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).					
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.					
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))  , containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).					
4. This report contains indications relating to the following items:					
FA	asis of the report				
Box No. II P	riority				
	o. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
Box No. IV L	ack of unity of invention				
	easoned statement under Article 35(2) with regard to novelty, inventive step or dustrial applicability; citations and explanations supporting such statement				
Box No. VI	ertain documents cited				
Box No. VII C	ertain defects in the international application				
Box No. VIII C	Box No. VIII Certain observations on the international application				
Date of submission of the demand		Date of completion	of this report		
04 August 2005 (04.08.2005)		19 December 2005			
Name and mailing address of the IPEA/ US		Authorized officer 🖟	Chonalanger BORD		
Mail Stop PCT, Attn: IPEA/US		Carol S. W. Tsai	The state of the s		
Commissioner for Patents P.O. Box 1450					
Alexandria, Virginia 22313-1450		Telephone No. (571)	) 272-2224		

Facsimile No. (571) 273-3201
Form PCT/IPEA/409 (cover sheet)(April 2005)

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INTERNATIONAL	PORT IMTNARY	REPORT	ON PATENTA	BILITY

International application No.	
PCT/US05/00073	

Box No. 1 Basis of the report				
1. With regard to the language, this report is based on:				
the international application in the language in which it was filed.				
a translation of the international application into English, which is the language of a translation furnished for the				
purposes of:				
international search (under Rules 12.3 and 23.1(b))				
publication of the international application (under Rule 12.4(a))				
international preliminary examination (under Rules 55.2(a) and/or 55.3(a))				
2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):				
the international application as originally filed/furnished				
the description:				
pages 1-69 as originally filed/furnished  pages* NONE received by this Authority on				
pages* NONE received by this Authority on  pages* NONE received by this Authority on				
F-0-				
the claims:  pages 70-112 as originally filed/furnished				
pages 70-112 as originary meditarmshed pages* NONE as amended (together with any statement) under Article 19				
pages* NONE received by this Authority on				
pages* NONE received by this Authority on				
the drawings:				
pages 1-5 as originally filed/furnished				
nages* NONE received by this Authority on				
pages* NONE received by this Authority on				
a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.				
3. The amendments have resulted in the cancellation of:				
the description, pages				
the description, pages the claims, Nos				
the claims, Nos the drawings, sheets/figs				
·				
the sequence listing (specify):				
any table(s) related to the sequence listing (specify):				
This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).				
the description, pages				
the claims, Nos.				
the drawings, sheets/figs				
the drawings, sheets/rigs the sequence listing (specify):				
any table(s) related to the sequence listing (specify):				
* If item 4 applies, some or all of those sheets may be marked "superseded."				

Form PCT/IPEA/409 (Box No. I) (April 2005)

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US05/00073

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1. Statement					
Novelty (N)	Claims 16-70	YES			
	Claims 1-15	NO			
Inventive Step (IS)	Claims 16-70	YES			
	Claims 1-15	NO			
Industrial Applicability (IA)	Claims 1-70	YES			
Industrial rependances (20-2)	Claims NONE	NO			

2. Citations and Explanations (Rule 70.7)
Claims 1-15 lack novelty under PCT Article 33(2) as being anticipated by JP2002008892 to Shimazu.

As to claims 1-15, Shimazu discloses a system of computing and rendering the nature of bound atomic and atomic ionic electrons form physical solutions of the charge, mass, and current density functions of atoms and atomic icons, which solutions are derived from Maxwell's equations using a constraint that the bound electron(s) does not radiate under acceleration, comprising: processing means for processing and solving the equations for charge, mass, and current density functions of electron(s) in a selected atom or ion, wherein the equations are derived from Maxwell's equations using a constraint that the bound electron(s) does not radiate under acceleration; and a display in communication with the processing means for displaying the current and charge density representation of the electron(s) of the selected atom or ion (see Solution, lines 1-6 and Figs. 6-8).

Claims 16-70 meet the criteria set out in PCT Article 33(2), because the prior art does not teach or fairly suggest the algorithm for the rendering of the electron of atomic hydrogen using mathematic equations.

Claims 1-70 meet the criteria set out in PCT Article 33(4) because the subject matter claimed can be made or used in industry.